

Docket No.: 55340-RCE (70840) (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Takuma Hiramatsu

Application No.: 09/674,068

Confirmation No.: 9269

Filed: April 6, 2001

Art Unit: 2633

For: SPACE-DIVISION MULTIPLEX FULL

DUPLEX LOCAL AREA NETWORK

Examiner: Bello, Agustin

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

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CERTIFICATE OF EXPRESS MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee' service under 37 CFR 1.10 (Express Mail Label No: EV 654382159 US), and is addressed to Mail Stop: AMENDMENT, Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 on July 8, 2005.

By Kathy O. Drinde Kathryn A. Grindrod

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references/documents listed on the attached PTO/SB/08a/b. It is respectfully requested that these references/documents be expressly considered during the prosecution of this application, and that these references/documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.



1	COPIES	
	a. <u>X</u>	Submitted herewith is a legible copy of (i) each U.S and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
	b	This application relies under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No, filed on The references listed on the attached Form PTO/SB08a/b were submitted to, and/or cited by, the Office in the prior application(s) and, therefore, are not required to be provided in this application.
11.		EXPLANATION OF THE RELEVANCE ck at least one box)
	a. <u>X</u>	Except as may be indicated below in (b), all of the patents, publications or other information submitted herewith are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).
	b	A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:
	C	The following additional information is provided for the Examiner's consideration:

1



III. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b) (check one box)

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a	within three months of the filing date of a national application (37
	C.F.R. § 1.97(b) (1). No fee or certification is required.
b	within three months of the date of entry of the national stage as set
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	(2). No fee or certification is required.
C	before the mailing date of a first Action on the merits (37 C.F.R. §
	1.97(b) (3)). No fee or certification is required. In the event that a
	first Office Action on the merits has been issued, please consider
	this IDS under 37 C.F.R. § I.97(c) and see the certification under 37
	C.F.R. § 1.97(e) below, or, if no certification has been made,
	charge our deposit account a fee in the amount of \$180.00 as
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before the i	mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37
C.F.R. § 1.	97(c) (1)) or before the mailing date of a Notice of Allowance under 37
C.F.R. § 1.	311 (See 37 C.F.R. § 1.97(c) (2)).
a.	No certification; therefore, a fee in the amount of \$180.00 is
· —	required by 37 C.F.R. §1.17(p).
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IV.



V. <u>STATEMENT UNDER 37 C.F.R. § 1.97(e)</u> (check <u>only</u> one box)

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The undersigned hereby states that

each item of information contained in the IDS was first cited in a a. X communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or no item of information contained in the IDS was first cited in a b. communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § I.56(c) more than three months prior to the filing of this statement. Some of the items of information were cited in a communication C. from a foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining

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CUPY

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any reason a	a further fee is required, a fee paid is inadequate or a credit is owed for any
excess fee p	aid, you are hereby authorized and requested to charge and/or credit
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The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1105, under Order No. 55340-RCE (70840). A duplicate copy of this paper is enclosed.

Dated: July 8, 2005

Respectfully submitted,

By named a. Tucker

David A. Tucker

Registration No.: 27,840

EDWARDS & ANGELL, LLP

P.O. Box 55874

Boston, Massachusetts 02205

(617) 517-5508

Attorney for Applicant

475685



PTO/SB/08a/b (08-03)

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Substitute for form 1449A/B/PTO				Complete if Known		
				Application Number	09/674,068-Conf. #9269	
	NFORMATIO	N DISC	LOSURE	Filing Date	April 6, 2001	
STATEMENT BY APPLICANT			PLICANT	First Named Inventor	Takuma Hiramatsu	
— 1 1 1 1 1 1 1 1 1 1 1 1				Art Unit	2633	
(Use as many she ets as necessary)			essary)	Examiner Name	Bello, Agustin	
Shee	et 1	of	1	Attorney Docket Number	55340-RCE (70840)	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²		
	CA	K. Iversen, et al. "Application of Algorithms for DOA Estimation and Beamforming to Infrared Photodiode Arrays", Acoustics, Speech and Signal Processing, 1997, 1997 IEEE International Conference on Munich, Germany, 21-24 April 1997, Los Alamitos, CA USA, IEEE Comput. Soc, US, Vol. 5, 21 April 1997 pp. 4053-4056.	1		
	СВ	A. P. Tang, et al., "Wireless Infrared Communication Links Using Multi-Beam Transmitters and Imaging Receivers", 1996 IEEE International Conference on Communications, Converging Technologies for Tomorrow"s Applications, Dallas, 23-27 June 1996, IEEE International Conference on Communication, New York, IEEE, US, Vol. 1, 23 June 1996, pp. 180-186.	1		
	СС	D. P. Johnson, et al., "Free-Space Infrared Local Area Network (FIRLAN)", Optical Engineering, Soc. of Photo-Optical Instrumentation Engineers, Bellingham, US, Vol. 32, No. 9, 1 September 1993, pp. 2114-2117,	1		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner Date Signature Considered			
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Date: July 8, 2005

Inventor: Takuma Hiramatsu

Atty Docket No.: 55340-RCE (70840)

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Filing Date: April 6, 2001

Title: SPACE-DIVISION MULTIPLEX FULL-DUPLEX LOCAL AREA NETWORK

Documents Filed:

Certificate of Express Mailing (1 page)

Information Disclosure Statement (10 pages)

IDS (Citation) by Applicant (3 References) (1 page)

JUL 1 8 2005 DWARDS & ANGELL, LLP DOCKETING DEPT. (BOS)

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